

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 97-087

WASTE DISCHARGE REQUIREMENTS FOR:

Napa County Flood Control and Water Conservation District
Napa River Navigation Channel Maintenance Dredging
Upland Disposal Site, Napa County

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

1. The Napa County Flood Control and Water Conservation District (hereinafter the Discharger) maintains the navigability of Federally authorized channel in the Napa River.
2. The Discharger proposes to dredge a total of approximately 275,000 cubic yards, consisting of approximately 225,000 cubic yards of sediment from the Federal channel in the Napa River, and 50,000 cubic yards at the River Park Marina and the Kennedy Park Boat Launching Facility within the City of Napa. The material would be disposed at upland disposal sites managed by Napa County.
3. These requirements are for the discharge of wastewater from dredge material handling and disposal operations.
4. The upland disposal sites are located at site "A", near the Napa Sewage Plant, and site "B", near Kennedy Park, Napa County.
5. The existing beneficial uses of the waters of the Napa River as set forth in the Basin Plan are as follows:
 - a. Agricultural Supply
 - b. Cold and Warm Freshwater Habitat
 - c. Fish Migration and Spawning
 - d. Navigation
 - e. Preservation of rare and endangered species
 - f. Water Contact Recreation
 - g. Noncontact Water Recreation
 - h. Wildlife Habitat
6. The Board, on June 21, 1995, adopted a revised Water Quality Control Plan (Basin Plan) which contains water quality objectives for surface and ground waters in the region, as well as discharge prohibitions intended to protect beneficial uses.

7. Effluent limitations in these requirements are based on the plans, policies, and water quality objectives of the Basin Plan, Quality Criteria for Water (EPA 440/5-86-001, 1986; Gold Book), Applicable Federal Regulations (40 CFR Parts 122 and 131), the National Toxics Rule (57 FR 60848, 22 December, 1992; NTR), and Best Professional Judgment.
8. The action to adopt waste discharge requirements for this facility is exempt from the provisions of the California Environmental Quality Act (CEQA), in accordance with Section 15304, Title 14, California Administrative Code.
9. The Regional Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge.
10. The Regional Board, in a public meeting, heard and considered all the comments pertaining to the discharge.
11. IT IS HEREBY ORDERED that Napa County, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Discharge Prohibitions:

1. The direct discharge of wastes (including dredged sediment material) to surface waters or surface water drainage courses is prohibited.
2. The discharge shall not cause degradation of any water supply.
3. The dredged material shall remain within the designated disposal area at all times. The dredged material may be removed as soil after drying to a second disposal site, if approval is obtained from Regional Board staff.
4. The dredge and disposal shall not cause a nuisance as defined in Section 13050(m) of the California Water Code.

B. Specifications

1. At no point within a containment area or cell shall the elevation of sediment exceed that of the levees, berms, or other containment structures.

C. Effluent Limitations

Wastewater (decant water, return water) discharged at the control weir shall not exceed the following limits at any time:

Table 1. Effluent Limitations

Constituent	Instantaneous Limit (ppb)	Maximum	Basis for Limitation
Arsenic	20		Basin Plan
Cadmium	10		Basin Plan
Chromium(VI) ¹	11		Basin Plan
Copper	20		Basin Plan
Cyanide	25		Basin Plan
Lead	5.6		Basin Plan
Mercury	1		Basin Plan
Nickel	7.1		Basin Plan
Silver	2.3		Basin Plan
Zinc	58		Basin Plan
Total Suspended Sediment	100 ppm		Best Professional Judgment
Dissolved Sulfide	100		Best Professional Judgment
pH	6.5 - 8.5		Basin Plan

¹ The Discharger may, at its option, meet this limit as total chromium (Basin Plan - 1995 Basin Plan).

ppb = parts per billion

ppm = parts per million

D. Receiving Water Limitations

1. The dredging and/or disposal of waste (i.e., sediments) shall not cause:
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam in waters of the State at any place more than 100 feet from the dredge or point of discharge of the return flow.
 - b. Bottom deposits or aquatic growth in waters of the State at any place.

- c. Alteration of apparent color beyond present natural background levels in waters of the State at any place more than 100 feet from the dredge or point of discharge of the return flow.
- d. Visible floating, suspended, or deposited oil or other products of petroleum origin in waters of the State at any place.
- e. Waters of the State to exceed the following quality limits at any point:

Dissolved Oxygen	5.0 mg/l minimum When natural factors cause lesser concentrations, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.
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Dissolved Sulfide	0.1 mg/l maximum.
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pH	A variation of natural ambient pH by more than 0.2 pH units.
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Toxic or other deleterious substances	None shall be present in concentrations or quantities which may cause deleterious effects on aquatic biota, wildlife or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentrations.
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2. Turbidity of the waters of the State at any point beyond the 100 feet of the discharge of the return flow shall not increase above background levels by more than the following:

<u>Receiving Waters Background</u>	<u>Incremental Increase</u>
<50 units	5 Units, maximum
50-100 units	10 units, maximum
>100 units	10% of background, maximum

3. The groundwater shall not be degraded as a result of the sediment disposal and handling operation.

D. PROVISIONS

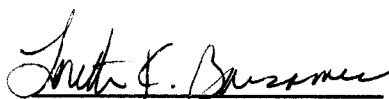
1. The discharge of silt, sand, soil, clay, or other earthen materials from dredging, construction or any other on-shore operation in quantities sufficient to cause deleterious bottom deposits or turbidity or discoloration in excess of natural background levels in surface waters is prohibited.
2. Dredging operations shall cease immediately whenever violations of requirements are detected through implementation of the Self-Monitoring Program (SMP) and operations shall not resume until alternative methods of compliance are provided. The discharger shall notify the Regional Board immediately whenever violations are detected and operations shall not resume until the Executive Officer of the Regional Board staff has approved the corrective action plan that will provide alternative methods of compliance.
3. The Discharger shall file with the Regional Board monthly self-monitoring reports performed according to any Self-Monitoring Program issued by the Executive Officer.
4. All reports pursuant to these Provisions shall be prepared under the supervision of a registered civil engineer or certified engineering geologist.
5. Dust and odor from the dredged sediment disposal operations shall not cause a nuisance beyond the property boundaries.
6. The Discharger shall ensure that the foundation of the site, the levees surrounding the site, and the structures which control leachate, decant water, or surface drainage, are designed, constructed, and maintained to withstand conditions generated during the maximum probable earthquake.
7. The Discharger shall install any additional leachate monitoring devices required to fulfill the terms of any Self-Monitoring Program issued to the discharger in order that the Board may evaluate compliance with the conditions of this order.
8. The discharge of any hazardous, designated or non-hazardous waste as defined in Title 23, Division 3, Chapter 15 of the California Administrative Code, to the disposal site is prohibited. Only dredged material that has been demonstrated to be non-hazardous may be discharged to the disposal site.
9. The Discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.

10. The Discharger shall file with this Regional Board a report of any material change or proposed change in the character, location, or quantity of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries of the disposal areas or the ownership of the site.
11. At least 30 days prior to each dredging episode, the Discharger shall submit to the Regional Board a report of the chemical and physical analysis of the proposed dredge material. The sampling and analysis should be consistent with Public Notice 93-2 ("Testing Guidelines for Dredged Material Disposal at San Francisco Bay Sites") Table 1 and Table 3 guidelines or any subsequent modification(s) thereof. A modified Waste Extraction Test (WET), as described in Title 22, California Code of Regulations, Section 66700, shall also be required. The modification, substituting deionized water for the sodium citrate buffer, is detailed in Section 66700(e).
12. The Discharger shall maintain a copy of this Order at the site so as to be available at all times to site operating personnel.
13. The property owner and site operator are considered to have full responsibility for correcting any and all problems which arise in the event of a failure which results in an unauthorized release of waste or wastewater.
14. The Discharger shall maintain all devices or designed features installed in accordance with this Order such that they function without interruption for the life of the operation.
15. The ultimate off-site disposal of the dried dredge material is subject to the approval of the Executive Officer. This approval shall be based upon a demonstration that the ultimate disposal will occur at a site which has Waste Discharge Requirements (WDR) from this Regional Board or a site that has received a waiver of WDR.
16. The Discharger shall permit the Regional Board or its authorized representative, upon presentation of credentials:
 - a. Entry on to the premises on which wastes are located or in which records are kept.
 - b. Access to copy any records required to be kept under the terms and conditions of this Order.
 - c. Inspection of any treatment equipment, monitoring equipment, or monitoring method required by this Order.

- d. Sampling of any discharge or surface water covered by this Order.
18. The Discharger shall comply with all applicable items of the attached "Standard Conditions and Reporting Requirements for Non-NPDES Wastewater Discharge Permits" dated August, 1993.
19. These requirements do not authorize commission of any act causing injury to the property of another or of the public; do not convey any property rights; do not remove liability under federal, state, or local laws, or the regulations or rules of other programs and agencies. Nor does this Order authorize the discharge of wastes without appropriate permits from other agencies or organizations.

I, Loretta K. Barsamian, Executive Officer, do hereby certify that the foregoing is a full, complete and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on July 16, 1997.

Sincerely,



Loretta K. Barsamian
EXECUTIVE OFFICER

Attachments: A: Self Monitoring Program (SMP), Parts A and B

August 1993
SELF-MONITORING PROGRAM
PART A

Non-NPDES Facilities

A. PURPOSE

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards, and other standards, and (4) to prepare water and wastewater quality inventories.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the 40 CFR S136 or other methods approved and specified by the Executive Officer of this Regional Board.

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health Services (DOHS) or a laboratory waived by the Executive Officer from obtaining a certification for these analyses by the DOHS. The director of the laboratory whose name appears on the certification or his/her laboratory supervisor who is directly responsible for analytical work performed shall supervise all analytical work including appropriate quality assurance/quality control procedures in his or her laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. SPECIFICATIONS FOR SAMPLING AND ANALYSES

The discharger is required to perform sampling and analyses according to the schedule in Part B in accordance with the following conditions:

1. Effluent
 - a. At least one sampling day shall reflect one day of weekend discharge, one day of peak loading, and one day of major unit operation shutdown or startup. The Executive Officer may approve an alternative sampling plan if it is demonstrated to the EO's satisfaction that expected operating conditions for the facility warrant a deviation from the standard sampling plan.
 - b. Grab samples of effluent shall be collected during periods of maximum peak flows and shall coincide with effluent composite sample days.
 - c. Chlorine residual analyzers shall be calibrated against grab samples as

frequently as necessary to maintain accurate control and reliable operation. If an effluent violation is detected, grab samples shall be collected at least every 30 minutes until compliance is achieved.

- d. When any type of overflow occurs, samples shall be collected on a daily basis for all constituents at all affected discharge points which have effluent limits for the duration of the overflow.

D. STANDARD OBSERVATIONS

1. Land Retention or Disposal Areas

This applies both to liquid and solid wastes confined or unconfined.

- a. For each impoundment determine amount of the freeboard at lowest point of dikes confining liquid wastes.
- b. Evidence of leaching liquid from area of confinement and estimated size of affected area. Show affected area on a sketch and volume of flow (gpm, etc.).
- c. Odor: presence or absence, characterization, source, and distance of travel.
- d. Estimated number of waterfowl and other water-associated birds in the disposal area and vicinity.

2. Periphery of Waste Treatment and/or Disposal Facilities

- a. Odor: presence or absence, characterization, source, and distance of travel.
- b. Weather conditions: wind direction and estimated velocity.

E. RECORDS TO BE MAINTAINED

- 1. Written reports, strip charts, calibration and maintenance records, and other records shall be maintained by the discharger and accessible (at the waste treatment plant), and retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board. Such records shall show the following for each sample:
 - a. Identify sampling and observation stations by number.
 - b. Date and time of sampling and/or observations.
 - c. Method of sampling.

- d. Date and time that analyses are started and completed, and name of personnel performing the analyses.
 - e. Calculation of results.
 - f. Results of analyses and/or observations.
2. A tabulation shall be maintained that shows the following flow data for influent and effluent stations and disposal areas:
 - a. Total waste flow or volume for each day.
 - b. Maximum and minimum daily flows for each month.
 3. A tabulation reflecting bypassing and accidental waste spills shall be maintained showing information items listed in Sections E-1 and E-2 for each occurrence.
 4. A chronological log for each month shall be maintained of the effluent disinfection and bacterial analyses, showing the following:
 - a. Date and time each sample is collected and waste flow rate at time of collection.
 - b. Chlorine residual, contact time, and dosage (in kilograms per day and parts per million).
 - c. Coliform count for each sample.
 - d. Moving median coliform of the number of samples specified by waste discharge requirements.

F. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Spill Reports

A report shall be made of any spill of oil or other hazardous material. Spills shall be reported to this Regional Board, at (510) 286-1255, immediately after the occurrence. A written report shall be filed with the Regional Board within five (5) working days and shall contain information relative to:

- a. Nature of waste or pollutant.
- b. Quantity involved.
- c. Duration of incident.
- d. Cause of spill.
- e. SPCC Spill Prevention and Containment Plan in effect, if any.

- f. Estimated size of affected area.
- g. Nature of effects (i.e., fishkill, discoloration of receiving waters, etc.).
- h. Corrective measures that have been taken or planned, and a schedule of these activities.
- i. Persons notified.

2. Reports of Plant Bypass, Treatment Unit Bypass, and Permit Violation

In the event the discharger violates or threatens to violate the conditions of the waste discharge requirements and prohibitions or intends to experience an overflow or treatment failure due to:

- a. Maintenance work, power failures, or breakdown of waste treatment equipment, or
- b. Accidents caused by human error or negligence, or
- c. Other causes, such as acts of nature,

the discharger shall notify the Regional Board office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within 7 working days of the telephone notification. The written report shall include time and date, duration and estimated volume of waste bypassed, method used in estimating volume, and person notified of the incident. The report shall include pertinent information explaining reasons for the noncompliance and shall indicate what steps were taken to prevent the problem from reoccurring.

In addition, the waste discharger shall promptly accelerate his monitoring program to analyze the discharge at least once every day. Such daily analyses shall continue until such time as the effluent limits have been attained, until bypassing stops or until such time as the Executive Officer determines to be appropriate. The results of such monitoring shall be included in the regular Self-Monitoring Report.

- 3. The discharger shall file a written technical report to be received at least 30 days prior to advertising for bid (60 days prior to construction) on any construction project which would cause or aggravate the discharge of waste in violation of requirements; said reports shall describe the nature, cost, and scheduling of all actions necessary to preclude such discharge. In no case will any discharge of wastes in violation of permit and order be permitted unless notification is made to the Executive Officer and approval obtained from the Regional Board.

4. Self-Monitoring Reports

Written reports shall be filed regularly for each calendar month (unless specified otherwise) and filed no later than the fifteenth day of the following month. The reports shall be comprised of the following:

a. Letter of Transmittal:

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include:

- 1) Identification of all violations of waste discharge requirements found during the reporting period,
- 2) Details of the magnitude, frequency, and dates of all violations,
- 3) The cause of the violations, and
- 4) Discussion of the corrective actions taken or planned and the time schedule for completion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such a schedule will be satisfactory.

Monitoring reports and the letter transmitting reports shall be signed by a principal executive officer or ranking elected official of the discharger, or by a duly authorized representative of that person.

The letter shall contain the following certification:

"I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

b. Map or aerial photograph.

A map shall accompany the report showing the sampling and observation station locations.

c. Effluent Data Summary.

Summary tabulations of the data shall include for each constituent the total number of analyses, maximum, minimum, and average values for each period. Flow data shall be included. The original is to be submitted to:

Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

5. Annual Reporting

By January 30 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calendar year. The report shall contain both tabular and graphical summaries of the monitoring data during the previous year. In addition, the report shall contain a comprehensive discussion of the compliance record and the corrective actions, taken or planned, which may be needed to bring the discharger into full compliance with the waste discharge requirements.

CALIFORNIA REGIONAL WATER QUALITY CONTROL PLAN
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

Napa County
Flood Control and Water Conservation District
Napa River Navigation Channel Maintenance Dredging
Upland Disposal Site, Napa County
Part B

This portion of the Self Monitoring Program (SMP) contains terms and definitions specific to the permitted discharge.

I. DESCRIPTION OF SAMPLING STATIONS

A. RECEIVING WATERS (Return Flow)

- A1. A point shall be at the point of discharge to the receiving water.
- B1. The sampling point shall be within 100 feet of the discharge to the receiving water. Sample to be taken at mid-depth of water column and at slack tide.
- AU. Sampling point shall be at least 75 feet upstream of the discharge to the receiving water. Sample to be taken at mid-depth of water column and taken at ebb tide.

II. LAND OBSERVATIONS

- L1-L10 Visual observations at points equidistant along the perimeter levee not to exceed 1,000 feet spacing.

III. SCHEDULE OF SAMPLING, ANALYSIS AND OBSERVATIONS

A. The following table is to be implemented as a principle part of the SMP and is written specifically for the discharge described in this permit.

	Stations A1 & AU	Station B1	Stations L1-L10
Type of Sample	Grab	Grab	Observations
<u>Parameter:</u>			
Total Suspended Solids	Weekly	Weekly/per episode ¹	
pH	Weekly	Weekly/per episode	
Dissolved Sulfide (mg/l)	Weekly	Weekly/per episode ²	
Dissolved Oxygen (mg/l)	Weekly	Weekly/per episode	
Temperature (°C)	Weekly	Weekly/per episode	
Turbidity (JTU)	Weekly	Weekly/per episode	
Standard Observations			Weekly/per episode
Bioassay (96-hr)	Bimonthly ³		
Metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Zn)	Weekly/per episode		


¹ "Episode" is defined as a decant water discharge event.

² To be performed if D.O. drops below 5.0 mg/l at Station A.

³ Test to be carried out using standard ASTM protocol for Pacific Oyster (*Crassostea gigas*) larvae or other method as approved by the Executive Officer.

I, Loretta K. Barsamian, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedures set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 97-087.
2. Was adopted by the Board on July 16, 1997.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by Executive Officer or Regional Board.


Loretta K. Barsamian
Executive Officer